

# V&V Reference Report

## L2 ASCDS Version : 7.6.7.2

Observation 5338 - L2 Version 001  
Chandra X-Ray Center

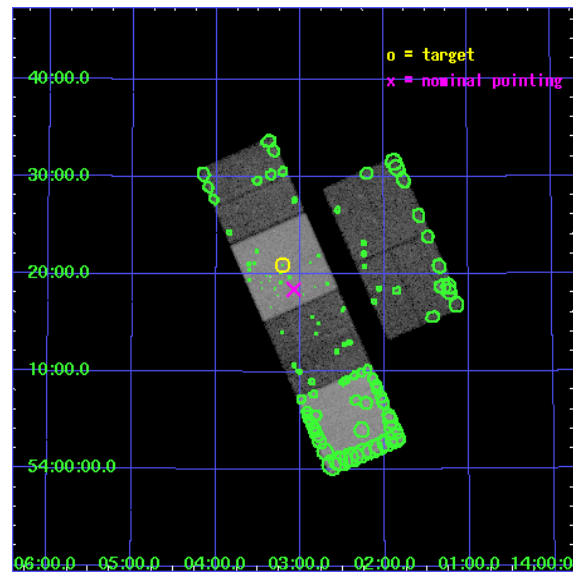
L2 Processing Date : Apr 29 2006

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# 1 Front

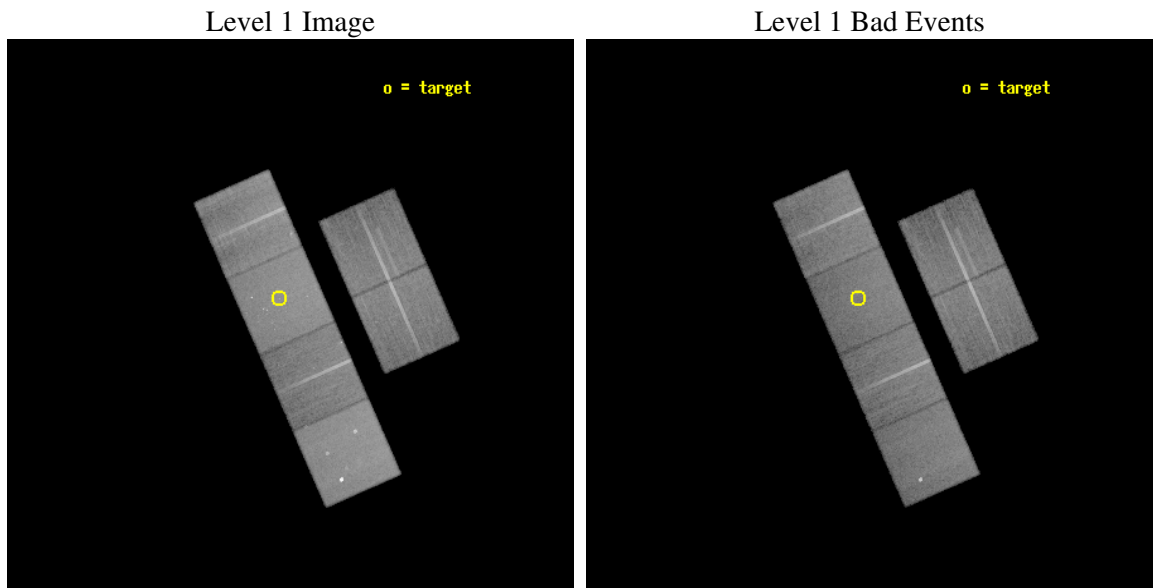
seq_num	600389
obs_id	5338
title	An Ultra-Deep Study of M101
observer	Dr. K. Kuntz
object	M101
dtcycle	0
cycle	P
ra_targ	210.80375
dec_targ	54.348778
ra_nom	210.76930138499
dec_nom	54.307719011639
roll_nom	246.18461590122
revision	2
ontime	28934.399892211
livetime	28568.015098572
ontime2	28931.158902019
ontime3	28934.399892211
ontime5	28934.399892211
ontime6	28934.399892211
ontime7	28934.399892211
ontime8	28931.158892006
l2events	340993



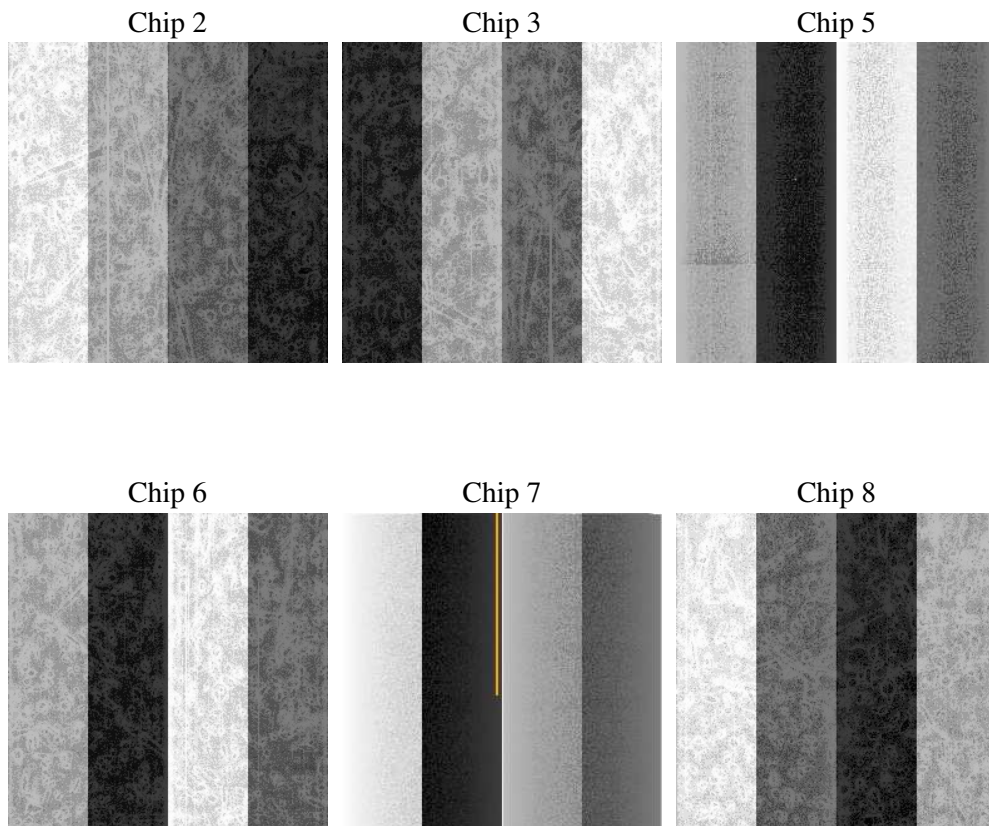
## 2 OBI

### 2.1 OBI

#### 2.1.1 Images



#### 2.1.2 Bias



### 2.1.3 Parameters

obi_num	0
ascdsver	7.6.7.2
caldsver	3.2.1
date	2006-04-29T09:52:53
revision	2

sched_exp_time	28760.000000
ontime	28942.152953297
ontime2	28938.911913306
ontime3	28945.393943489
ontime5	28945.393943489
ontime6	28945.393943489
ontime7	28942.152953297
ontime8	28942.152943283
l1events	1561663

### 2.1.4 Events

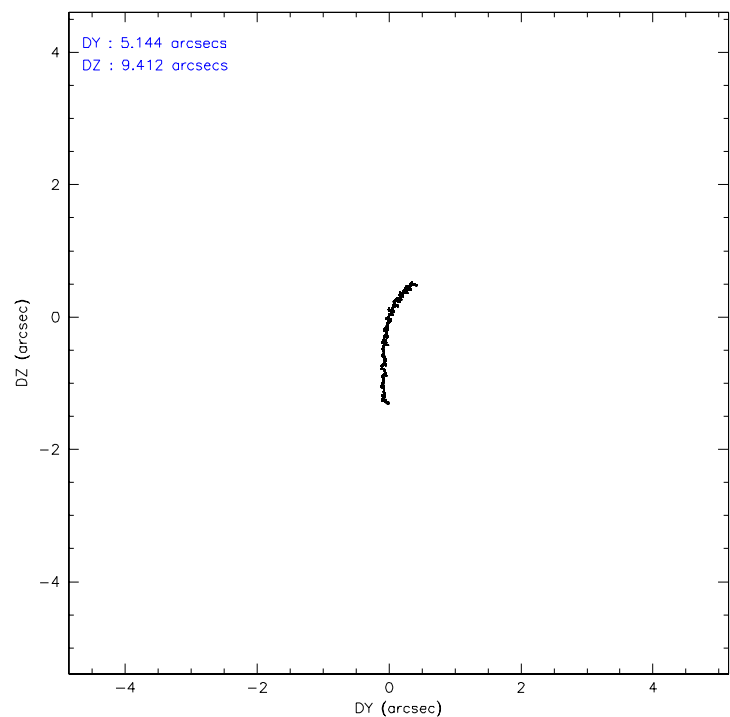
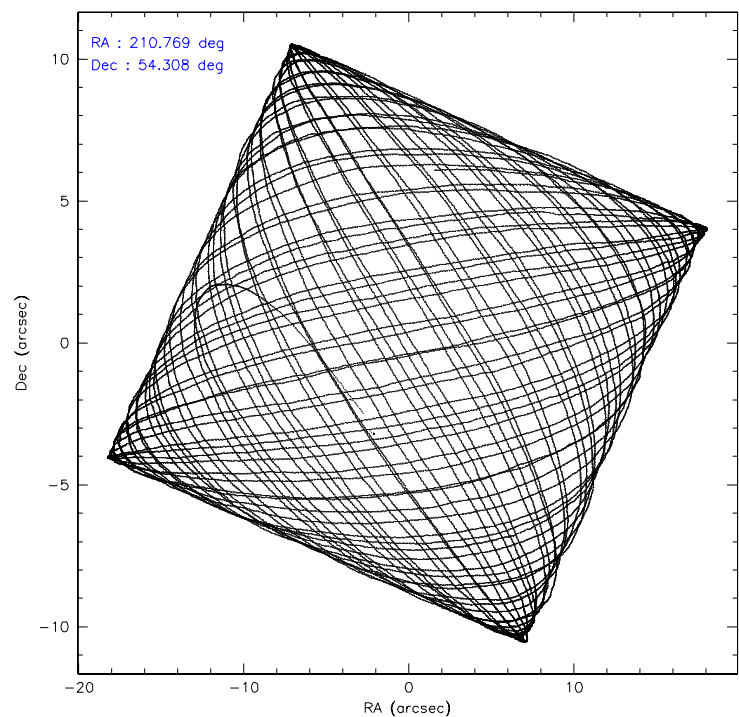
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
level 1 events	224130	211800	329707	221874	298616	275536
rejected events	197789	186930	183967	195435	182269	216037
rejected %	88%	88%	55%	88%	61%	78%

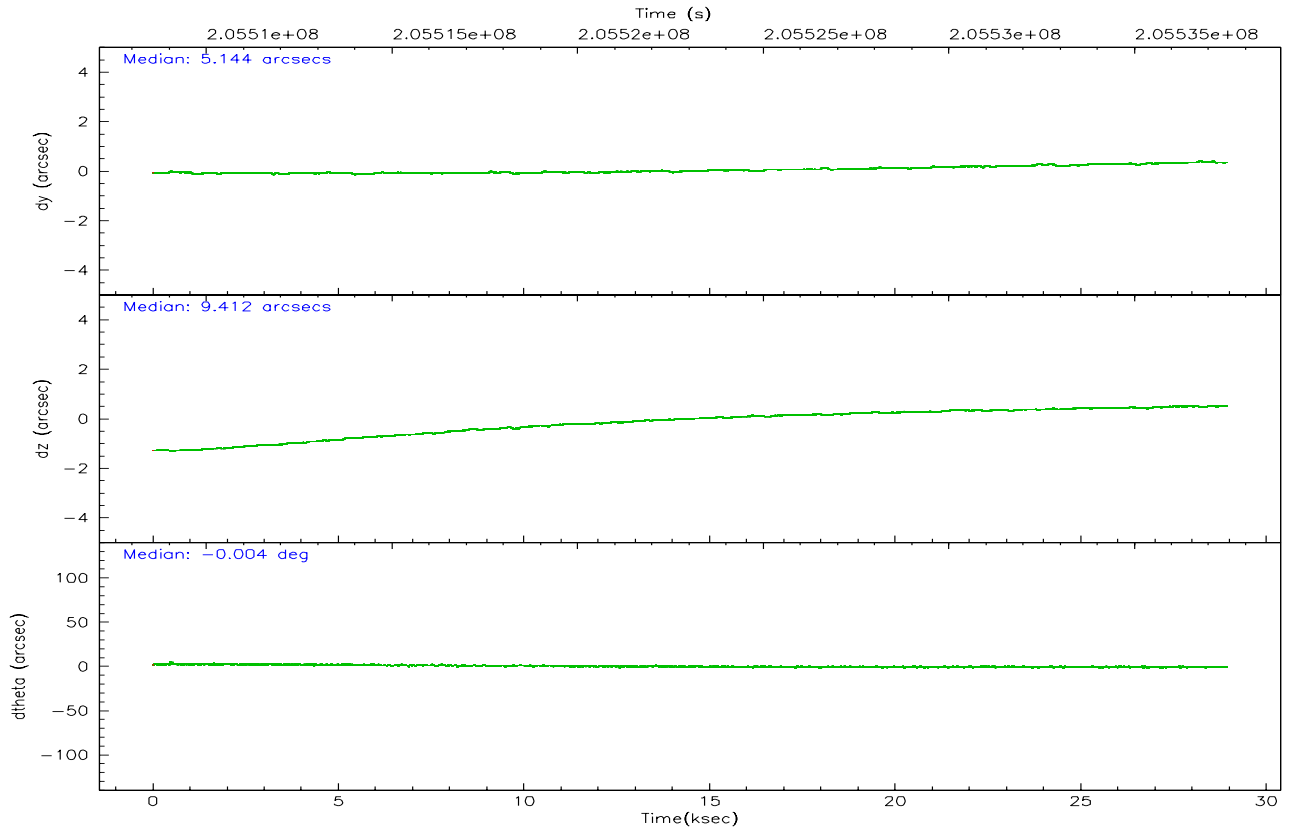
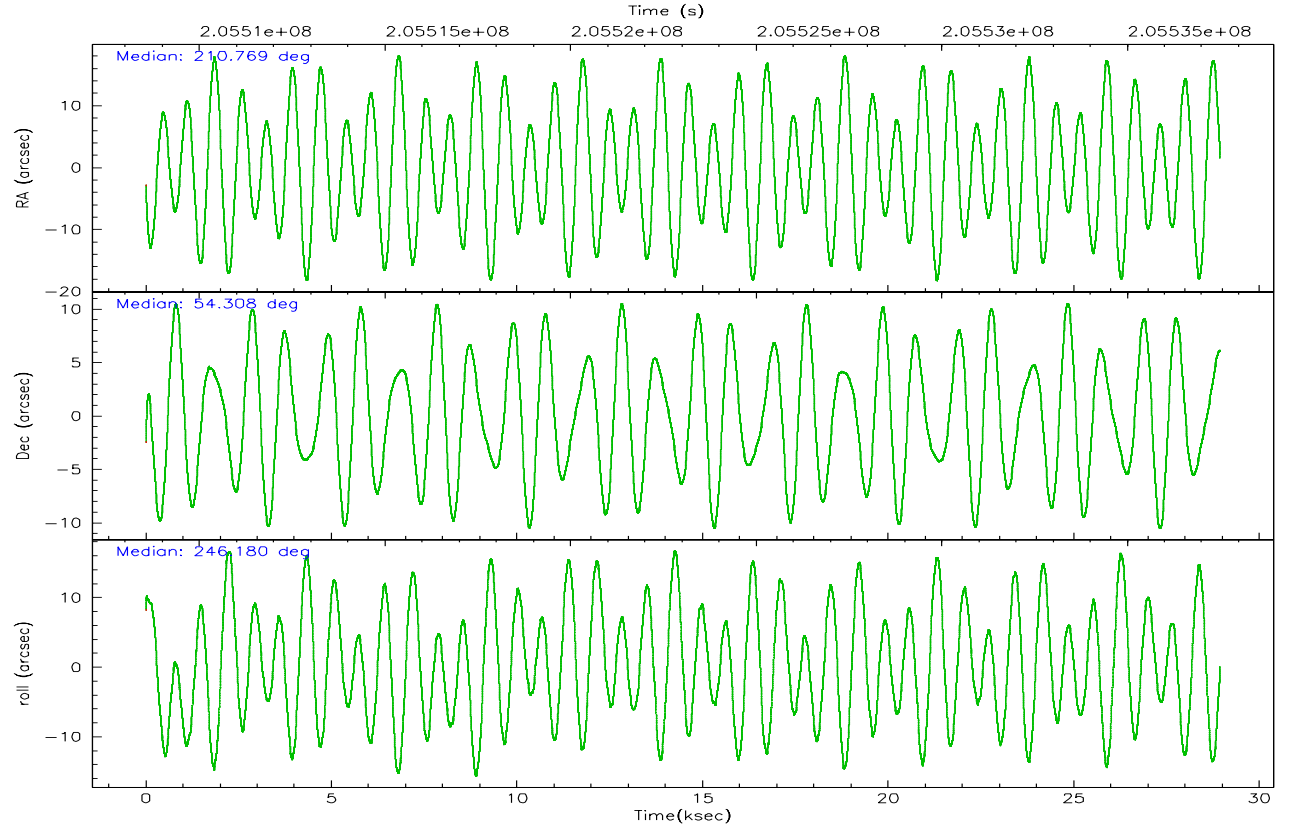
	ccd 2	ccd 3	ccd 5	ccd 6	ccd 7	ccd 8
grade 0 events	11870	10945	12080	10885	8257	18499
	5%	5%	3%	4%	2%	6%
grade 1 events	138	133	2494	96	180	196
	0%	0%	0%	0%	0%	0%
grade 2 events	5369	4770	45874	5398	28614	13149
	2%	2%	13%	2%	9%	4%
grade 3 events	2527	2448	3116	2556	5829	6197
	1%	1%	0%	1%	1%	2%
grade 4 events	2387	2416	2866	2403	5881	5876
	1%	1%	0%	1%	1%	2%
grade 5 events	8725	9546	15159	10142	19046	13035
	3%	4%	4%	4%	6%	4%
grade 6 events	4199	4308	81862	5206	67799	15792
	1%	2%	24%	2%	22%	5%
grade 7 events	188915	177234	166256	185188	163010	202792
	84%	83%	50%	83%	54%	73%

## 2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-235678	ACIS-235678	Obspar file type	PREDICTED	ACTUAL
Grating	NONE	NONE	Obspar update status	NONE	UPDATED
Data mode	VFAINT	VFAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	210.763621	210.7693013849861	Alternating exposures requested	N	N
Pointing Dec	54.334730	54.30771901163864	Primary exposure time	0.000000	3.2
Pointing Roll	246.032598	246.1846159012236			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-190.132523	-190.1425803651734			
SIM translation stage offset (mm)	0	0.01005778216563158			
Observation start time	205508748.184000	205507676.52274			
Observation start date	2004-07-06T13:44:44	2004-07-06T13:27:56			
Observation end time	205537508.184000	205538339.3991			
Observation end date	2004-07-06T21:44:04	2004-07-06T21:58:59			
Read mode	TIMED	TIMED			

## 2.3 Aspect





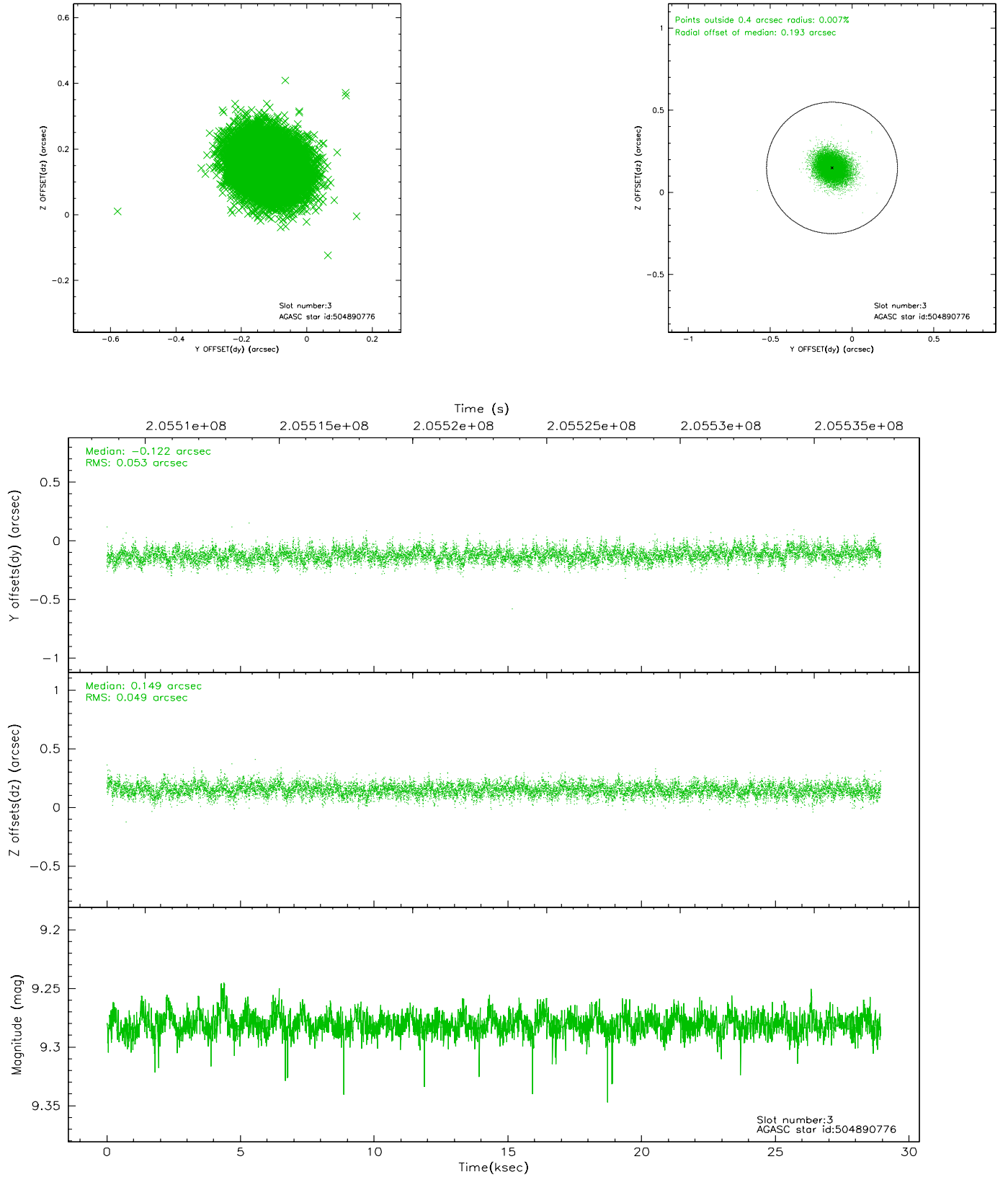
### Slot Statistics

slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	7058	-0.068	-0.036	0.013	0.020	0.000000	0.000000	-757.98	-1730.45
1	FID	ACIS-S-4	7.20	7060	0.036	0.049	0.009	0.019	0.000000	0.000000	2155.37	178.01
2	FID	ACIS-S-6	7.35	7060	0.005	-0.005	0.009	0.015	0.000000	0.000000	404.19	815.46
3	GUIDE	504890776	9.28	14110	-0.122	0.149	0.076	0.126	211.095934	54.816966	-1867.53	-75.83
4	GUIDE	504891480	8.08	14112	-0.115	-0.069	0.062	0.098	210.708012	54.666096	-1042.83	-590.40
5	GUIDE	504893088	9.21	14115	0.054	-0.063	0.077	0.124	210.351715	54.364955	249.76	-834.60
6	GUIDE	504894856	8.98	14053	0.115	-0.101	0.080	0.129	209.819510	54.132689	1462.08	-1529.45
7	GUIDE	504890480	8.18	14114	0.068	0.082	0.070	0.110	210.132463	53.768436	2404.16	-401.37

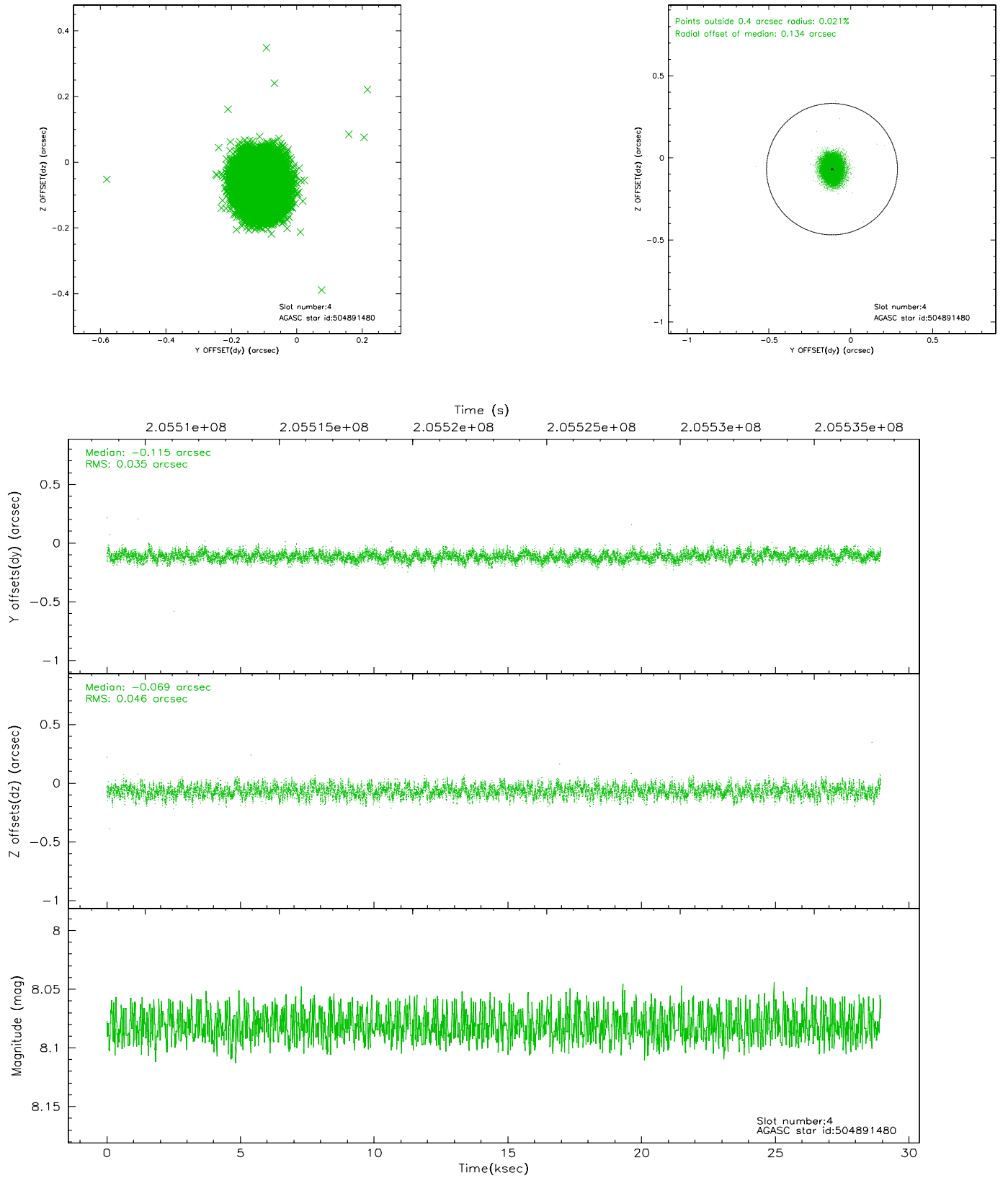


## 2.4 Star Slots

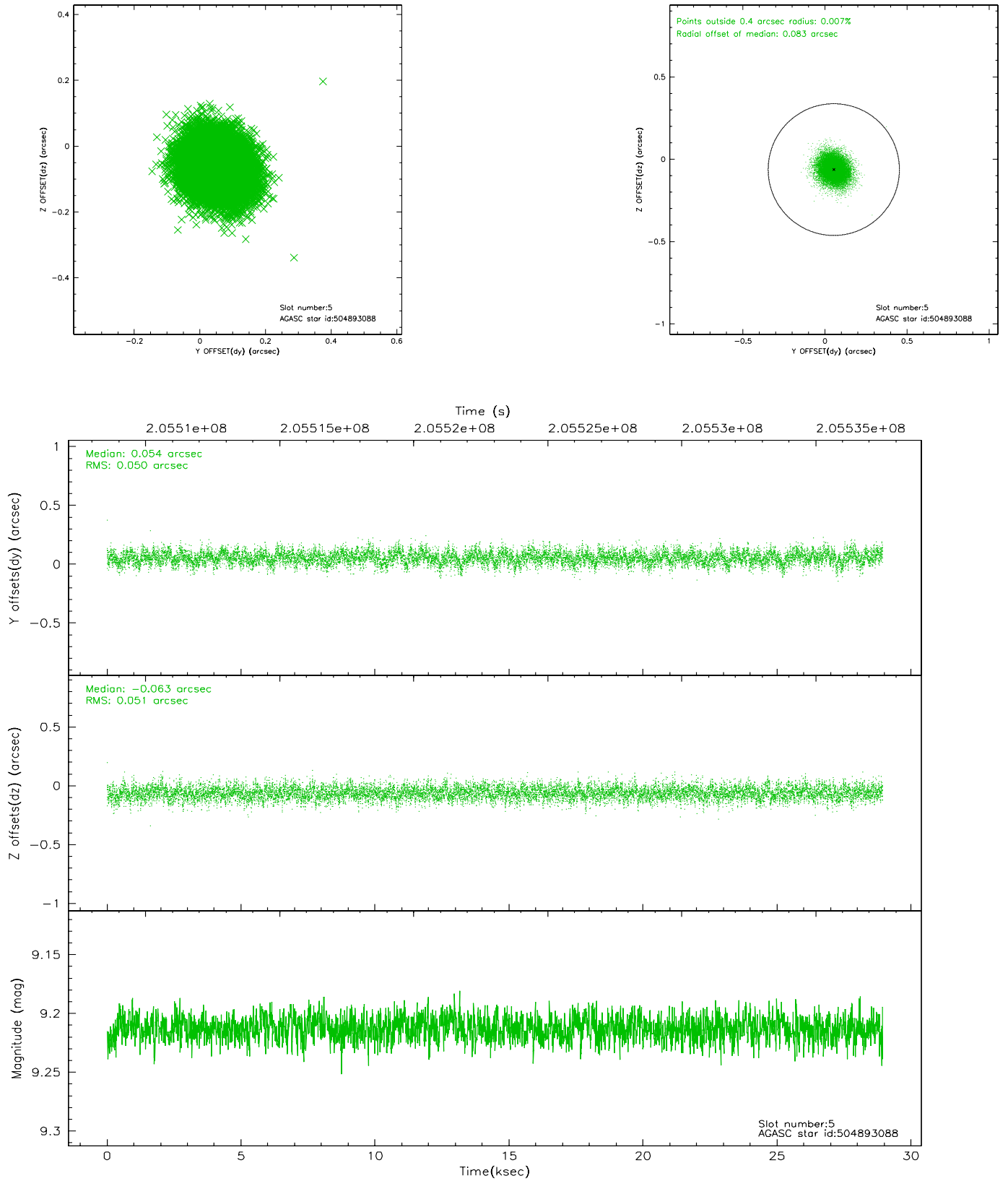
### 2.4.1 Slot 3



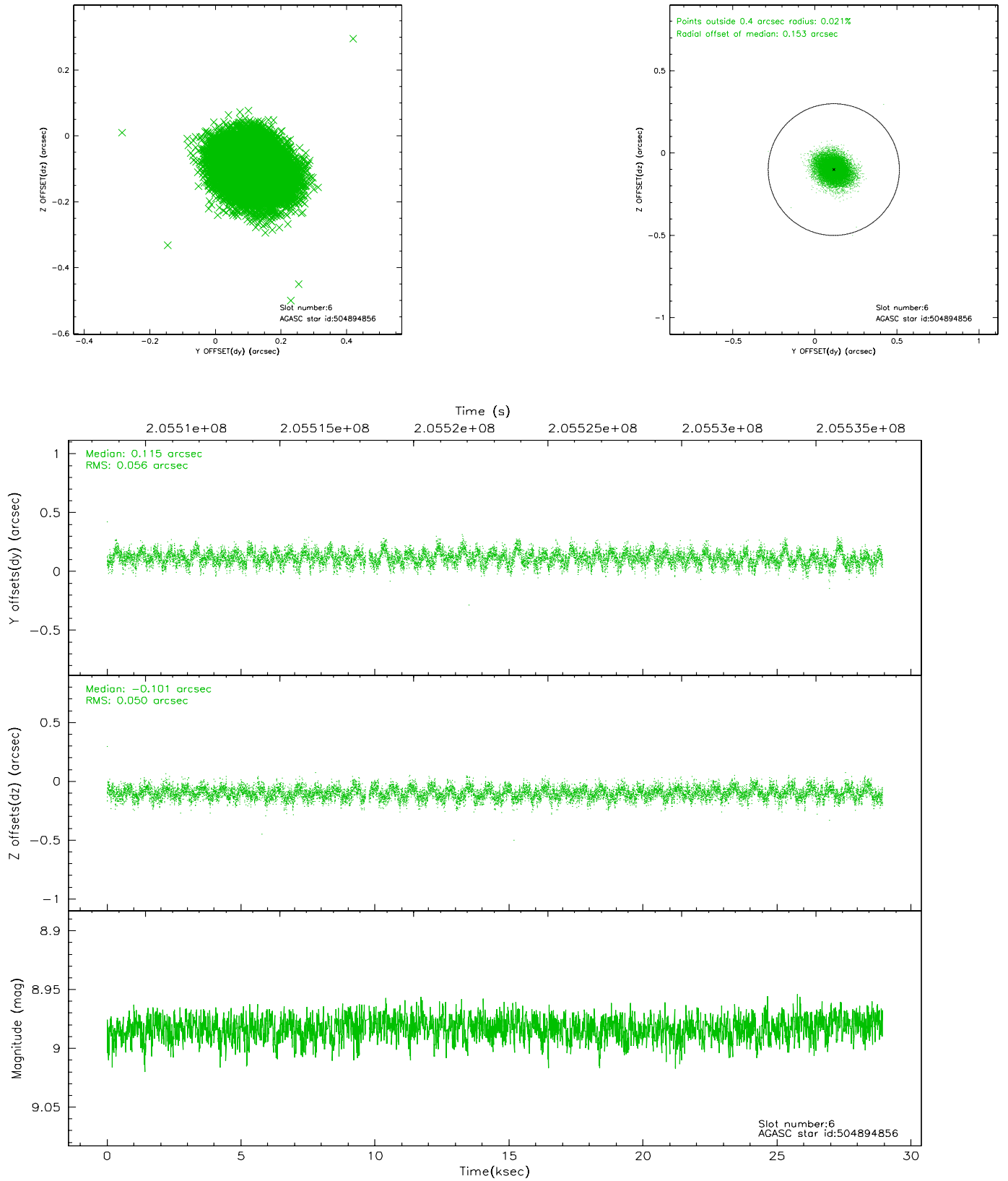
## 2.4.2 Slot 4



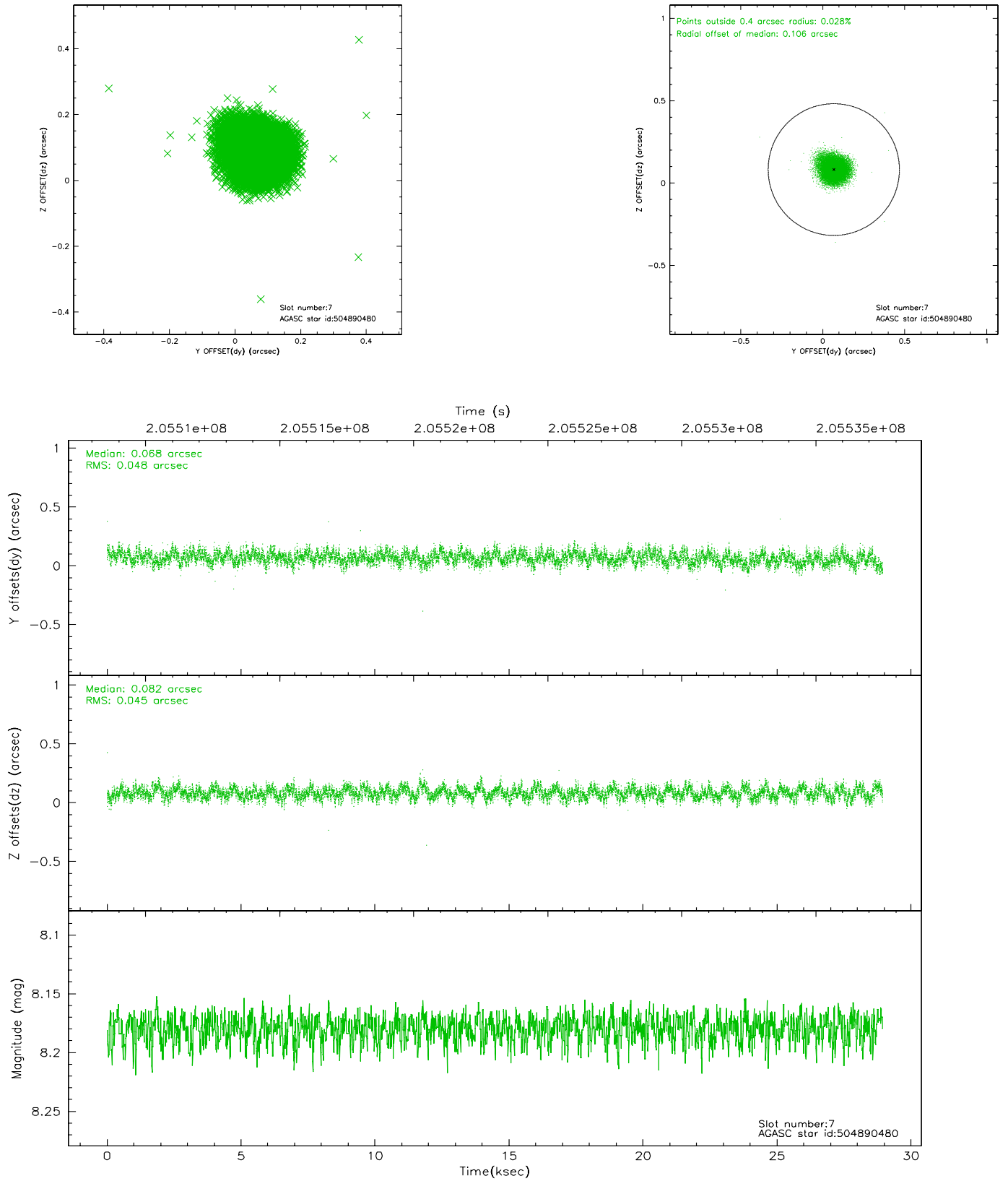
### 2.4.3 Slot 5



## 2.4.4 Slot 6

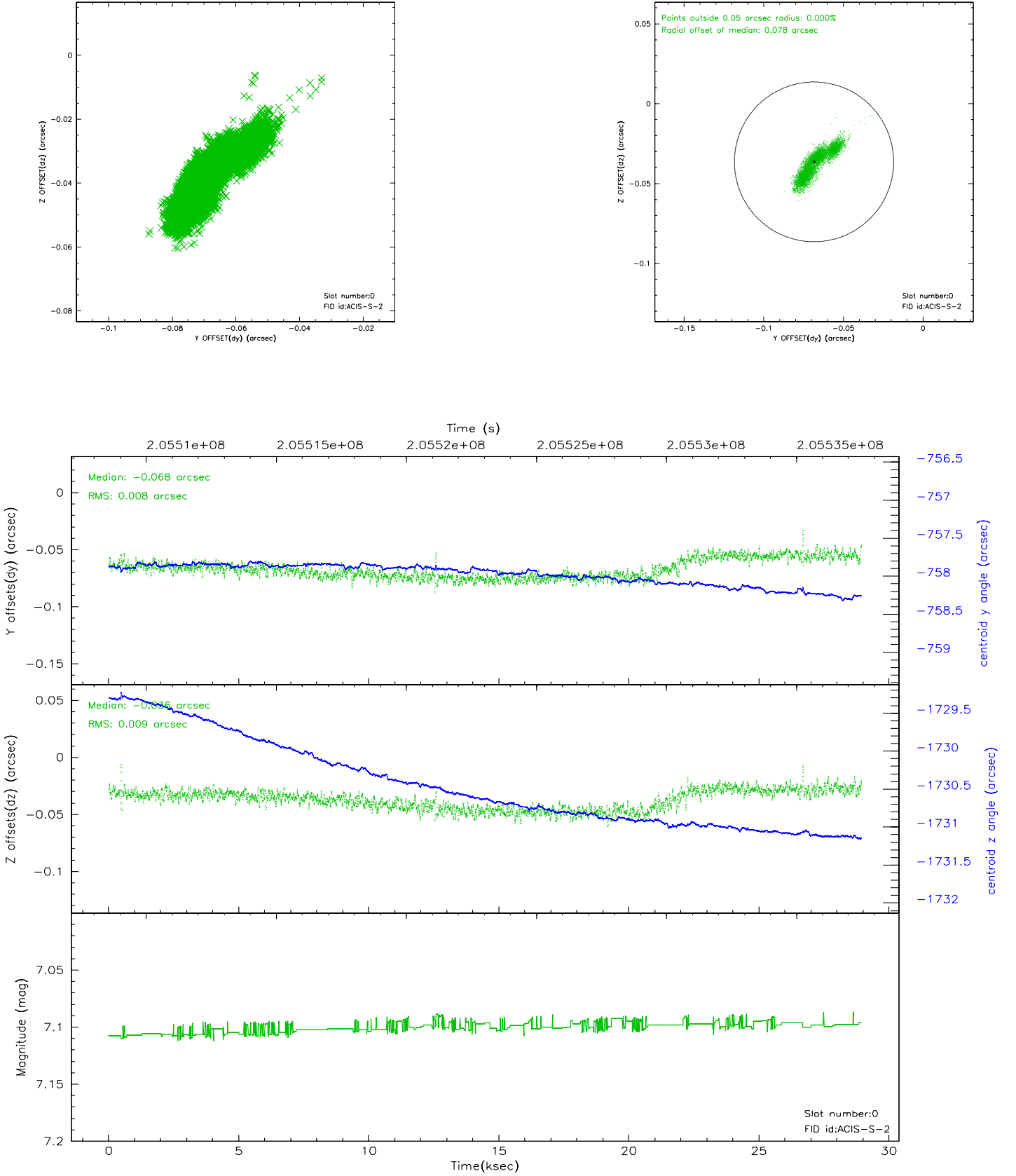


## 2.4.5 Slot 7

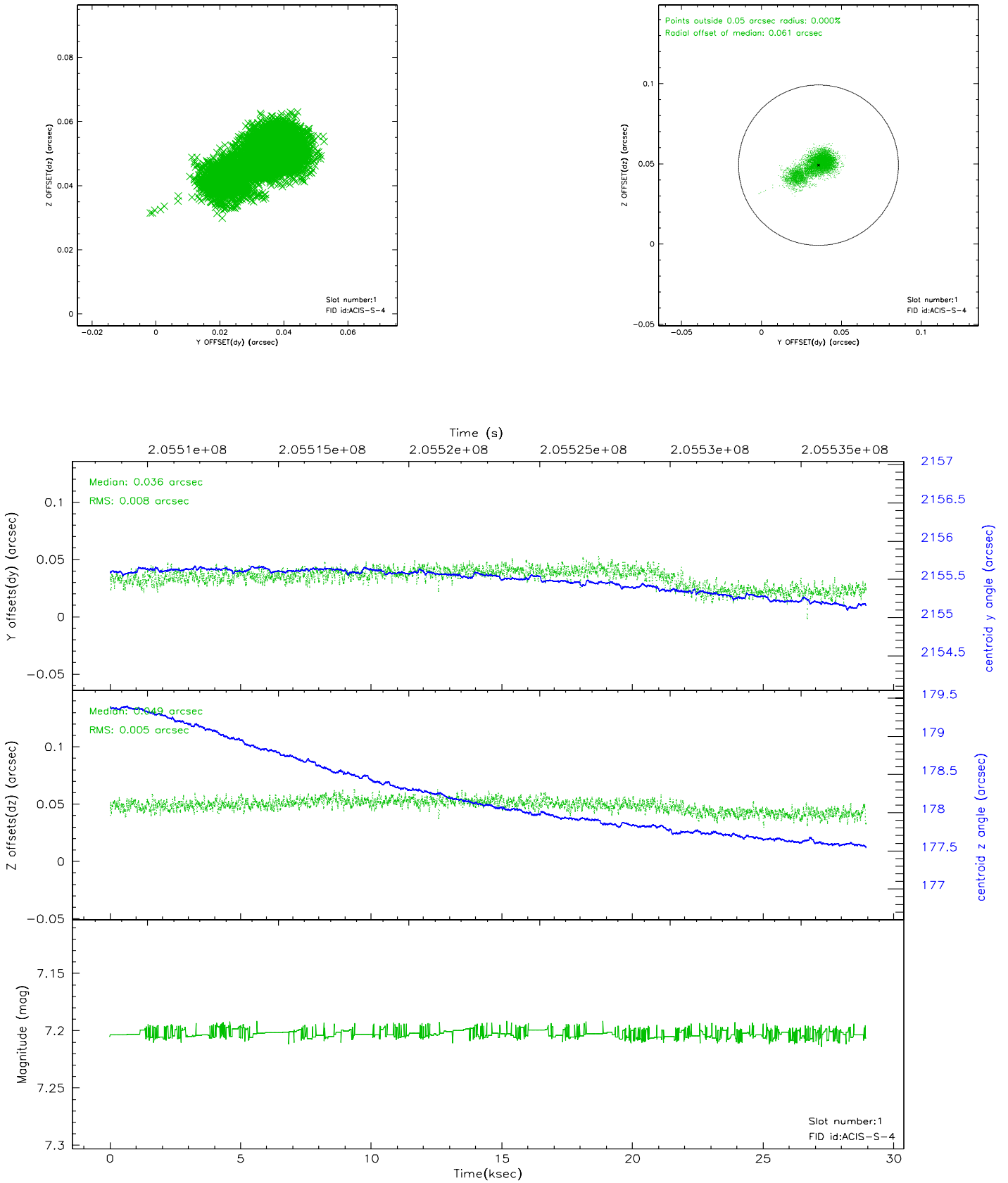


## 2.5 FID Slots

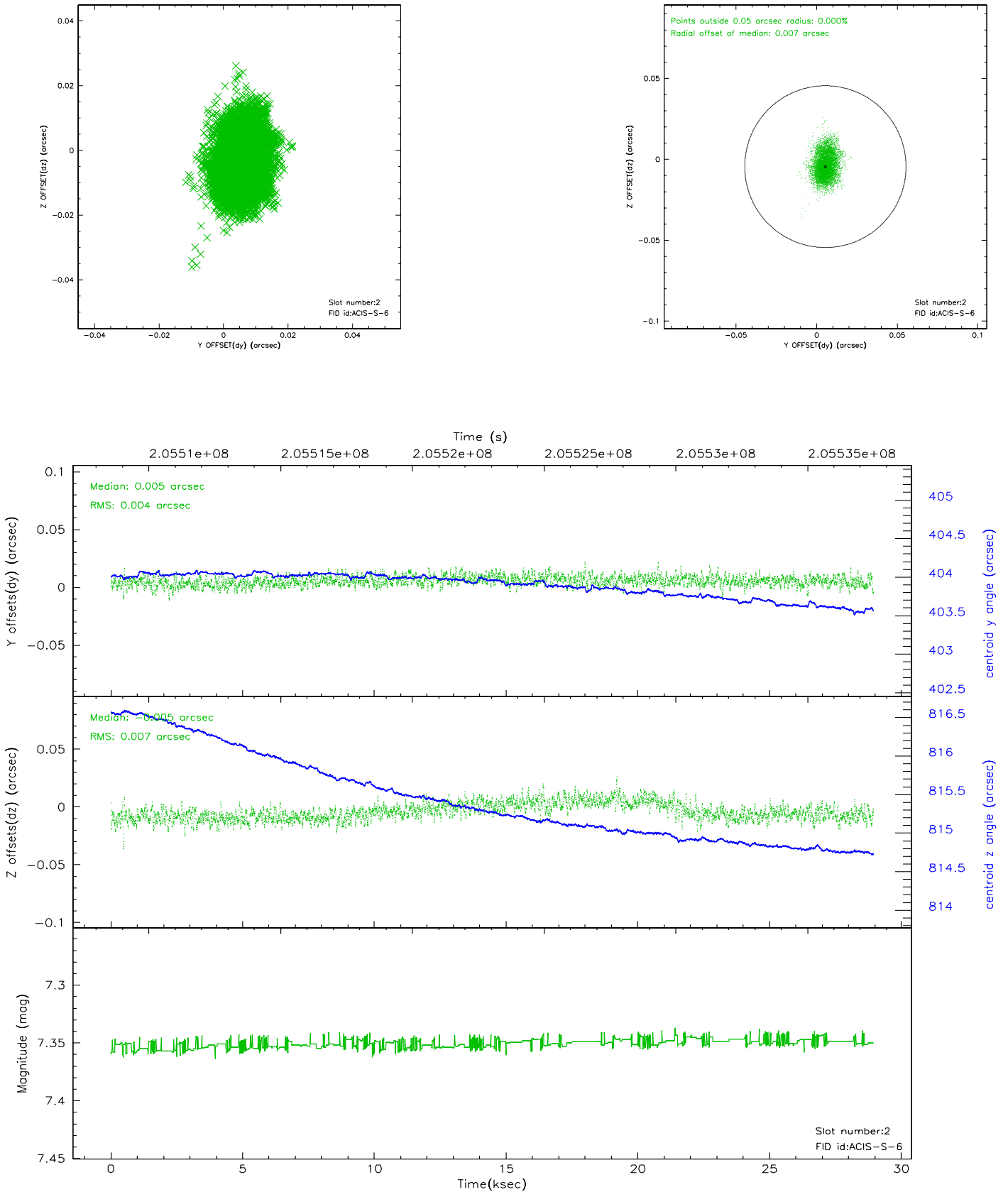
### 2.5.1 Slot 0



## 2.5.2 Slot 1

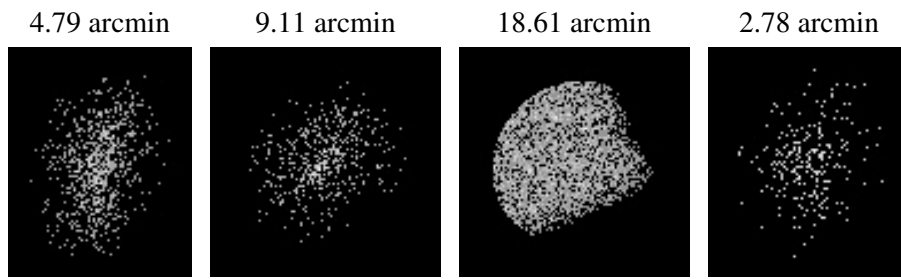


### 2.5.3 Slot 2





### 3 Point Sources



## A Summary

### A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.04.30
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	28.934

### A.2 Comments

Monitor constraint met.